

In th Claims

Amend claims 2, 5-7, and 16; and cancel, without prejudice, claim 1.

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1. (Cancelled)
 2. (Currently Amended) A golf ball comprising:
a solid core formed from a core composition including a polybutadiene rubber exhibiting a solution viscosity of from about 90 mPa•s to about 130 mPa•s.
~~The golf ball of claim 1,~~ wherein said core exhibits a coefficient of restitution of at least about 0.780.
 3. (Original) The golf ball of claim 2, wherein said solution viscosity value of said polybutadiene rubber is related to said coefficient of restitution value of said core so that the higher the value of said solution viscosity, the higher the value of said coefficient of restitution.
 4. (Original) The golf ball of claim 3, wherein said polybutadiene rubber exhibits a Mooney viscosity of from about 38 to about 52.
 5. (Currently Amended) The golf ball of claim 2 4, wherein said golf ball also comprises a cover covering the core, wherein the cover has one or more layers.
 6. (Currently Amended) The golf ball of clai9m 2 4, wherein said polybutadiene rubber has a cis-1,4 content of at least about 96%.
 7. (Currently Amended) The golf ball of claim 2 4, wherein said core further comprises a second polybutadiene rubber.
 8. (Cancelled)
 9. (Original) The golf ball of claim 2, wherein said core exhibits a coefficient of restitution of at least about 0.785.

10. (Previously Amended) A golf ball comprising:

a solid, molded core formed from a core composition including a polybutadiene rubber exhibiting a solution viscosity of from about 90 mPa•s to about 130 mPa•s, said core exhibiting a coefficient of restitution of at least about 0.783.

11. (Original) The golf ball of claim 10, wherein said polybutadiene rubber has a cis-1,4 content of at least about 96%.

12. (Original) The golf ball of claim 10, wherein said solution viscosity value of said polybutadiene rubber is related to said coefficient of restitution value of said core so that the higher the value of said solution viscosity, the higher the value of said coefficient of restitution.

13. (Original) The golf ball of claim 10, wherein said core further comprises a second polybutadiene rubber.

14. (Original) The golf ball of claim 10, wherein said polybutadiene rubber exhibits a Mooney viscosity of from about 38 to about 52.

15. (Cancelled)

16. (Currently Amended) A method for making a molded core exhibiting a particular coefficient of restitution value of at least 0.780, the method comprising:

selecting a polybutadiene rubber exhibiting a solution viscosity value of from about 90 mPa•s to about 130 mPa•s; and

forming a core from said polybutadiene rubber, said core exhibiting a coefficient of restitution value related to the value of said solution viscosity of said polybutadiene rubber.

17. (Original) A core formed from the method of claim 16.

18. (Original) The method of claim 16, wherein the value of said coefficient of restitution of said core is higher as the value of said solution viscosity exhibited by said polybutadiene rubber is increased.

19. (Original) The method of claim 16, wherein said polybutadiene rubber exhibits a Mooney viscosity of from about 38 to about 52.

20. (Cancelled)

21. (Previously Presented) The golf ball of claim 7 wherein the weight percent of said second polybutadiene rubber in said core is from about 30% to about 50%.

22. (Previously Presented) The golf ball of claim 13, wherein the weight percent of said second polybutadiene rubber in said core composition is from about 30% to about 50%.

23. (Previously Presented) A golf ball comprising:
a core formed from a composition including (i) from about 70% to about 50% of a first polybutadiene rubber exhibiting a solution viscosity of at least about 90 mPa·s, and (ii) from about 30% to about 50% of a second polybutadiene rubber.